# CENTER FOR DRUG EVALUATION AND RESEARCH

**APPLICATION NUMBER:** 

20-827

# **CHEMISTRY REVIEW(S)**

**REVIEW DATE: 30/3/98** 

2/20/98----

# DIVISION OF SPECIAL PATHOGENS AND IMMUNOLOGIC DRUG PRODUCTS

Review of Chemistry, Manufacturing, and Controls

SUBMISSION/TYPE	DOCUMENT DATE	CDER DATE		
ORIGINAL Amendment (BZ)	3/31/97 11/18/97	3/31/97 11/19/97		
Amendment (BC) Amendment (BC)	12/4/97 1/29/98	12/5/97 2/5/98		

2/19/98

3/6/98

CHEM.REVIEW #: 1

## NAME & ADDRESS OF APPLICANT:

Advanced Care Products
P.O. Box 6024
691 U.S. Route 1 South
North Brunswick, New Jersey 08902
Ph# (908) 524-1675

### **CONTACT:**

NDA #: 20-827

Amendment (BC)

Amendment (BC)

Diane Herron, Director, Regulatory Affairs

### **DRUG PRODUCT NAME:**

<u>Proprietary:</u> Monistat 3 Vaginal Cream <u>Established:</u> Miconazole Nitrate, USP

Code #: n/a

# PHARMACOLOGICAL CATEGORY/INDICATION:

Treatment of vulvovaginal candidiasis.

**DOSAGE FORM:** Vaginal Cream

STRENGTHS: 4% cream, 200 mg per applicator ROUTE OF ADMINISTRATION: Intravaginal

Rx/OTC: OTC

# CHEMICAL NAME, STRUCTURAL FORMULA, MOLECULAR FORMULA, MOLECULAR WEIGHT:

Miconazole nitrate,  $C_{18}H_{14}Cl_4N_2O.HNO_3$ , MW = 479.15

- (1) 1H-Imidazole, 1-[2-(2,4-dichlorophenyl)-2-[(2,4-dichlorophenyl)methoxy]ethyl]-, mononitrate
- (2) 1-[2,4-Dichloro-β-[(2,4-dichlorobenzyl)oxy]phenethyl]imidazole mononitrate CAS 22832-87-7

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## **CONSULTS:**

Trademark review (complete 9/9/97, satisfactory). Site inspection (complete 2/6/98, satisfactory). Environmental Assessment (categorical exclusion request acceptable).

# **REMARKS/COMMENTS:**

Monistat 3 Vaginal Cream is a modified, patented formula (AV.03.02.0077) of
miconazole nitrate vaginal cream, in which drug substance is suspended in the emulsion
(oil in water). CMC details regarding the drug substance are contained in the DMF
(miconazole nitrate, drug substance) and DMF (Intermediate)
and are not repeated in this submission. Deficiencies, which found in both DMFs were of
a minor nature and were addressed by their holder adequately. The base cream

formula is equivalent to the Miconazole Nitrate (2.0 %) New Base Vaginal Cream (Monistat 7 Vaginal Cream), product recently approved by the FDA in the supplement SCF-043 to the approved NDA 17-450.

## **CONCLUSIONS & RECOMMENDATIONS:**

The NDA submission and amendments provide adequate information on the chemistry, manufacturing and controls for the production of Monistat 3 Vaginal Cream. The related GMP and product specific inspections of the manufacturing facilities have been completed and found satisfactory. From the chemistry, manufacturing and controls viewpoint, the NDA is recommended for approval.

/S/ Dorota Matecka, Ph.D. 3/30/98

Dorota Matecka, Ph.D. Review Chemist, HFD-590

Norman R. Schmuff, Ph.D.

Team Leader, HFD-590

cc: Org. NDA 20-827

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